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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/835,931		04/16/2001	Sven Lindfors	SEPP12.001AUS	3539
20995	7590	09/11/2002			
KNOBBE :	MARTE	NS OLSON & BE	EXAMINER		
2040 MAIN FOURTEEN			KUNEMUND, ROBERT M		
IRVINE, CA 91614			ART UNIT	PAPER NUMBER	
				1765	5
			DATE MAILED: 09/11/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

			H5~5					
		Application No.	Applicant(s)					
	_	09/835,931	LINDFORS ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Robert M Kunemund	1765					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SH THE - Exte after - If th - If NO - Faili - Any	MORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply o period for reply is specified above, the maximum statutory period of ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ted patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	imely filed  ys will be considered timely.  In the mailing date of this communication.  ED (35 U.S.C. § 133).					
1) 🗌	Responsive to communication(s) filed on	<u> </u>						
2a)[_	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
· _	tion of Claims							
4)⊠	Claim(s) <u>1-58</u> is/are pending in the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	Claim(s) <u>1-58</u> is/are rejected.							
	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction and/o	r election requirement.						
	•	r						
9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on is/are: a)  accepted or b)  objected to by the Examiner.								
. •,								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority	under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)	a)⊠ All b)□ Some * c)□ None of:							
	1. ☐ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
*;	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmer		p.1011.y andoi 00 0.0.0, 33 12	e and of the c					
1) Notice 2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u>	5) Notice of Information	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)					

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## **DETAILED ACTION**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 to 6, 13 to 38 and 45 to 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leskela et al in view of Manasevit et al.

The Leskela et al reference teaches a method and apparatus for the atomic layer deposition process. The reference teaches the use of multiple sources in one system to create the desired deposition. The sources can be liquid solid or gas and an inert gas is used in the supply system. The gases are flowed to a substrate in pulses to deposit the layers, note entire reference. The sole difference between the instant claims and the prior art is the gas feed system. However, the Manasevit et al reference teaches a gas feed system for a multi source deposition process. There is means to supply the inert

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gases upstream and down stream from the source containers. There is a means to vent the gases prior to deposition and after deposition. The gases can be feed in pulse feeds, note figures. It would have been obvious to one of ordinary skill in the art to modify the Leskela et al reference by the teachings of the Manasevit et al reference to use the gases feed system of Manasevit et al in order to obtain a more uniform flows as set forth in the prior art.

Claims 7 to 12, and 39 to 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leskela et al in view of Manasevit et al.

The Leskela et al and Manasevit et al. references are relied on for the same reasons as stated, supra, and differ from the instant claims in the use of a purifier. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable means to clean the gases in the Leskela et al and Manasevit et al references in order to lower impurities in the deposited layers.

## Examiner's Remarks

The remaining references are merely cited of interest as showing the state of the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M Kunemund whose telephone number is 703-308-1091. The examiner can normally be reached on 8 hours.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ben Utech can be reached on 703-308-3636. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3599 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

RMK September 9, 2002

> ROBERT KUNEMUND PRIMARY EXAMINER